

96-50619350 HENKEL KGAA 95.05.06 95DE-1016765 (96.11.07) C23C 22/20, 22/42, 22/47 Producing conversion coatings on zinc or aluminium surfaces using solutions free from chromium and fluorine to avoid pollution problems (Ger) C96-158873 N(AU CA JP MX US) R(AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE) Addnl. Data: KUHMP, JOPPENM, SEIDEL R, KUEPPER S 96.04.29 96WO-EP01786	HENK 95.05.06 *WO 9634995-A1 C23C 22/20, 22/42, 22/47 Producing conversion coatings on zinc or aluminium surfaces using solutions free from chromium and fluorine to avoid pollution problems (Ger) C96-158873 N(AU CA JP MX US) R(AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE) Addnl. Data: KUHMP, JOPPENM, SEIDEL R, KUEPPER S 96.04.29 96WO-EP01786	A(12-B4) E(10-A7, 10-C2A, 10-C2D1, 10-C2D2, 10-C2F, 10-C4D4, 31-K5A) G(2-A5, 2-A5E) M(14-D) Producing conversion coatings on zinc or aluminium surfaces using solutions free from chromium and fluorine to avoid pollution problems (Ger) C96-158873 N(AU CA JP MX US) R(AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE) Addnl. Data: KUHMP, JOPPENM, SEIDEL R, KUEPPER S 96.04.29 96WO-EP01786	PREFERRED SOLUTION The solution contains 0.05-2 g/l organic film-forming agent; 9.2-4 Al ions with (hydroxy) carboxylic acid; and 1-1.5 phosphoric acid. The film-forming agent is a carboxyl group containing polymer such as a homo and/or copolymer of acrylic and./or methacrylic acid with a mol. weight of 20000-150000. The solution may contain nitric acid and the (hydro) carboxylic acid is chosen from oxalic, lactic, malic, citric, tartaric and/or gluconic acid. The solution may also contain 1-6 g/l six-valent W. The solution temperature is 15-50°C and is applied to an amount of 3-10 ml/mm ² to the surface before being dried at 50-125°C.. (RP) (21pp1678DwgNo.0/0) SR:2.Jnl.Ref EP15020 JP1116085 JP54056039 US4247344 WO9208822	USE Forming conversion coatings in Zn or Al surfaces. ADVANTAGE Solution is free from Cl and F ions and therefore avoids the
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